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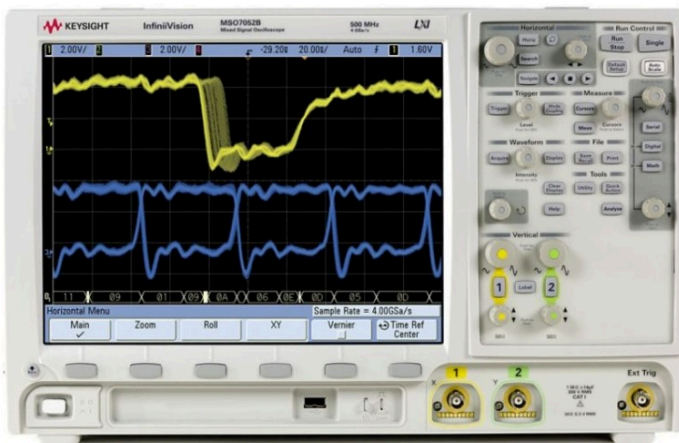
Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight MSO7052B 500MHz Oscilloscope, 2 Ch

Keysight / Agilent MSO7052B InfiniiVision 7000B Mixed Signal Oscilloscope The Agilent MSO7052B is a 500 MHz InfiniiVision 7000B mixed-signal oscilloscope with 2 analog channels and 16 digital channels. Maximum sample rate is 4 GSa/s in half-channel mode and 2 GSa/s on each channel. Standard memory is 8 Mpts. Digital pods sample at 2 GSa/s on one pod or 1 GSa/s on each pod with 250 MHz maximum digital input frequency. Peak detect is 250 ps. Update rates reach 100000 waveforms per second. High-resolution mode provides up to 12 bits when timebase conditions are met. The instrument uses a 12.1 inch display and weighs about 13 lb inachassis about 6.5 inches deep. The Agilent MSO7052B is a 500 MHz InfiniiVision 7000B mixed-signal oscilloscope with 2 analog channels and 16 digital channels. Maximum sample rate is 4 GSa/s in half-channel mode and 2 GSa/s on each channel. Standard memory is 8 Mpts. Digital pods sample at 2 GSa/s on one pod or 1 GSa/s on each pod with 250 MHz maximum digital input frequency. Peak detect is 250 ps. Update rates reach 100000 waveforms per second. High-resolution mode provides up to 12 bits when timebase conditions are met. The instrument uses a 12.1 inch display and weighs about 13 lb inachassis about 6.5 inches deep. Embedded mixed-signal debug, serial bus decode, analog and digital timing analysis, and general purpose 500 MHz scope measurements.



MODEL

**Agilent / Keysight
MSO7052B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MSO7052B

LISTING

<https://aumictechlabs.com/products/mso7052b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight MSO7052B is a 500 MHz mixed-signal oscilloscope engineered for embedded design debugging and complex signal analysis across analog and digital domains. This 2-channel, 16-digital-channel instrument delivers 4 GSa/s sampling with 8 Mpts of MegaZoom III deep memory, capturing intermittent events and subtle signal details. The 12.1-inch XGA display with 256 intensity levels provides enhanced signal visibility at waveform update rates reaching 100,000 wfms/s. High-resolution 12-bit vertical capture in single-shot mode enables detailed signal characterization.

Technical Specifications
Bandwidth: 500 MHz
Analog Channels: 2
Digital Channels: 16
Maximum Sample Rate: 4 GSa/s
Memory Depth: 8 Mpts (MegaZoom III)
Waveform Update Rate: Up to 100,000 wfms/s
Display: 12.1-inch XGA with 256 intensity levels
Vertical Resolution: Up to 12 bits (High Resolution Mode, real-time single-shot)

Key Features
Multiple acquisition modes: Normal, Average, Peak Detect, and High Resolution (Smoothing)
23 automatic measurements including voltage and time parameters via QuickMeas
Cursor measurements with Manual, Track, and Auto modes
Math functions: Add, Subtract, Multiply, FFT
Advanced triggering including analog HDTV and USB, with optional CAN, FlexRay, I²C, I²S, LIN, MIL-STD 1553, SPI, and UART/RS232 support
Mixed-signal triggering and automatic search/navigate for serial data
Segmented Memory capability (upgrade option)
Mask Testing functionality (upgrade option)
Serial data decoding options for I2C, SPI, CAN, LIN, RS232, FlexRay, and MIL-STD 1553
FPGA debugging support with tailored mixed-signal software

Typical Applications
Embedded system design and validation
FPGA development and debugging
Mixed-signal protocol analysis
Intermittent fault capture and glitch detection
Long-duration signal recording at high sample rates
Connectivity USB and LAN ports for data transfer, printing, and sharing
USB Host ports available
XGA video output for external display

MSO7052B Characteristics / Specifications

PARAMETER	VALUE
Model	MSO7052B
Instrument Type	mixed signal oscilloscope
Analog Bandwidth	500 MHz
Analog Channels	2
Digital Channels	16
Sample Rate Half Channel	4 GSa/s
Sample Rate Each Channel	2 GSa/s
Memory Depth Standard	8 Mpts
Vertical Resolution	8 bits
High Resolution Mode	up to 12 bits when timebase at or slower than 10 us/div at 4 GSa/s or 20 us/div at 2 GSa/s
Peak Detect	250 ps
Equivalent Time Sample Rate	400 GSa/s when real-time mode off
Digital Sample Rate One Pod	2 GSa/s
Digital Sample Rate Each Pod	1 GSa/s
Digital Max Input Frequency	250 MHz
Digital Glitch Detect	2 ns minimum pulse width
Waveform Update Rate	up to 100000 waveforms per second
Display Size	12.1 inch
Depth Class	about 6.5 inches
Weight Class	about 13 lb
Ac Coupled Bandwidth Lower	3.5 Hz
Calculated Rise Time Class	0.35/bandwidth
Automatic Measurements	23 with statistics
Hardware Counter	5 digit (8 digits with external 10 MHz reference)
Bandwidth	500 MHz

PARAMETER	VALUE
Rise Time	Class: 0.35/bandwidth

MSO7052B Specifications

PARAMETER	VALUE
Applications	Embedded mixed-signal debug, serial bus decode, analog and digital timing analysis, and general purpose 500 MHz scope measurements.
Eight megapoint MegaZoom III memory	Up to 100000 waveforms per second update rate
Technical Specifications	Model: MSO7052B
Notes	From Keysight InfiniiVision 7000B Series datasheet tables for MSO7052B. Probe and serial decode option sets vary by installed licenses.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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PARAMETER	VALUE
Model	MS07052B
Instrument Type	mixed signal oscilloscope
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Notes	
From Keysight InfiniiVision 7000B Series datasheet tables for MS07052B. Probe and serial decode option sets	

vary by installed licenses.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.